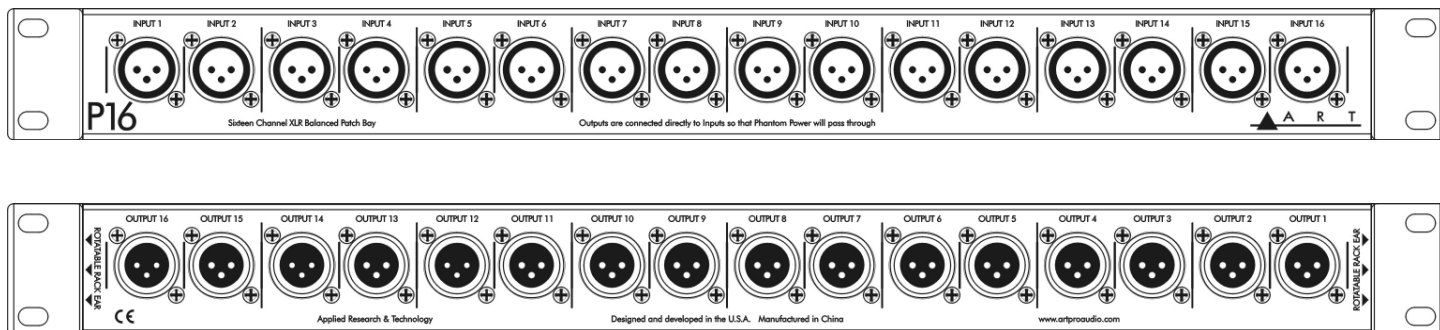


# P16

## Sixteen Channel XLR Balanced Patch Bay



## USER'S GUIDE



## IMPORTANT SAFETY INSTRUCTIONS - READ FIRST



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltages inside the enclosure that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

### Read instructions

Retain these safety and operating instructions for future reference. Heed all warnings printed here and on the equipment. Follow the operating instructions printed in this user guide.

### Do not open

There are no user serviceable parts inside. Refer any service work to qualified technical personnel only.

### Power sources

Only connect the unit to mains power of the type described in this user guide or marked on the rear panel. The power source must provide a good ground connection.

### Power cord

Use the power cord with sealed mains plug appropriate for your local main supply as provided with the equipment. If the provided plug does not fit into your outlet consult your service agent. Route the power cord so that it is not likely to be walked on, stretched or pinched by items placed upon or against.

### Grounding

Do not defeat the grounding and polarization means of the power cord plug. Do not remove or tamper with the ground connection on the power cord.

### Moisture

To reduce the risk of fire or electrical shock, do not expose the unit to rain, moisture or use in damp or wet conditions. Do not place container of liquid on it, which may spill into any openings.

### Heat

Do not locate the unit in a place close to excessive heat or direct sunlight, as this could be a fire hazard. Locate the unit away from any equipment, which produces heat such as: power supplies, power amplifiers and heaters.

### Environment

Protect from excessive dirt, dust, heat, and vibration when operating and storing. Avoid tobacco ash, drink spillage and smoke especially that associated with smoke machines.

### Handling

Protect the controls from damage during transit. Use adequate padding if you need to ship the unit. To avoid injury to yourself or damage to the equipment take care when lifting, moving or carrying the unit.

### Servicing

Switch off the equipment and unplug the power cord immediately if it is exposed to moisture, spilled liquid or the power cord or plug becomes damaged during a lightning storm or if smoke odor or noise is noted. Refer servicing to qualified technical personnel only.

### Installation

Install the unit in accordance with the instruction printed in the user guide.

## OVERVIEW

The ART P16 Sixteen Channel XLR Balanced Patch Bay is a deceptively simple, yet surprisingly useful addition to any serious collection of audio equipment. A patch bay organizes your cables and provides a convenient, easily accessible central location to make all of your audio connections. It also saves wear and tear on the connectors of your audio equipment because all connections are now made and changed at your patch bay. Application settings include use in professional or home recording studios, installed audio including PA, AV and home theater, and live sound.

### Features

- Sixteen channels of balanced direct signals
- High quality passive interface
- XLR connectors (female on front, male on rear)
- All connections made via reliable PCB wiring
- 19" 1U-high rack mount with rugged, fully shielded black all-steel enclosure
- Reversible rack ears for added system flexibility
- Three year warranty

## USING AN XLR PATCH BAY

Although the ART P16, like all patch bays, is conceptually a simple device, it is worth a small investment in time to familiarize yourself with a few of the many ways in which it can be used.

The most basic use for the P16 is to extend connections from the back of audio devices that are hard to reach using XLR cables to the back of the patch bay in a rack. From the front, you can then patch these connections to any place you want. Now you won't have to crawl around behind your gear to access the appropriate jack.

For larger installations, try to include several (within reason) patch bays along an audio signal path (both inputs and outputs) so that rerouting, patching in temporary sound sources and sending signals to temporary output devices can be done without connecting and disconnecting cables directly to and from your devices, like console inputs and outputs. For example, bringing room tie lines up to a P16 patch bay allows you to use short XLR patch cables to route mics in the studio booths to preamps in the control room. This saves wear and tear on equipment that is much more expensive to replace than patch bays are.

Using XLR connectors allows you to pass both balanced and unbalanced signals and use standard XLR adapters like ground lifts, isolation transformers, filters and attenuators. The signals may include phantom power for microphones that require it. The P16's outputs are connected directly to the inputs (pin 1 to pin 1, pin 2 to pin 2 and pin 3 to pin 3) so that phantom power passes through unchanged. Please note, however, that you should be extremely careful not to connect phantom power to an input or output not designed to handle it.

However you decide to use it, we're sure you'll find the ART P16 Sixteen Channel XLR Balanced Patch Bay to be an indispensable addition to your audio equipment arsenal.

## WARRANTY INFORMATION

### Limited Warranty

Applied Research and Technology will provide warranty and service for this unit in accordance with the following warrants:

Applied Research and Technology, (ART) warrants to the original purchaser that this product and the components thereof will be free from defects in workmanship and materials for a period of three years from the date of purchase. Applied Research and Technology will, without charge, repair or replace, at its option, defective product or component parts upon prepaid delivery to the factory service department or authorized service center, accompanied by proof of purchase date in the form of a valid sales receipt.

### Exclusions

**This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. This warranty is void if the serial number is altered, defaced, or removed.**

ART reserves the right to make changes in design or make additions to or improvements upon this product without any obligation to install the same on products previously manufactured.

ART shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights and you may have other rights, which vary, from state to state.

For units purchased outside the United States, an authorized distributor of Applied Research and Technology will provide service.

## SERVICE

The following information is provided in the unlikely event that your unit requires service.

1. Be sure that the unit is the cause of the problem. Check to make sure that the unit has power supplied, that all cables are connected correctly, and that the cables themselves are in working condition. You may want to consult with your dealer for assistance in troubleshooting or testing your particular configuration.
2. If you believe that the ART unit is at fault, go to [www.artproaudio.com](http://www.artproaudio.com). You may contact Customer Service for more assistance, or directly request a Return Authorization for service in the “resources” area of the website.
3. If you are returning the unit for service, pack the unit in its original carton or a reasonable substitute. The original packaging may not be suitable as a shipping carton, so consider putting the packaged unit in another box for shipping. Print the RA number clearly on the outside of the shipping box. Print your return shipping address on the outside of the box.
4. Include with your unit: a note with the RA number and your contact information, including a return shipping address (we cannot ship to a P.O. box) and a daytime phone number, and a description of the problem, preferably attached to the top of the unit. Also include a copy of your purchase receipt.

Fill in the following information for your reference:

|                  |       |
|------------------|-------|
| Date of purchase | _____ |
| Purchased from   | _____ |
| Serial Number    | _____ |

## SPECIFICATIONS

|                              |                                           |
|------------------------------|-------------------------------------------|
| Connectors                   | Balanced XLR (female front, male rear)    |
| CMRR                         | > -95 dB (typical)                        |
| Channel to channel isolation | > -95 dB (typical)                        |
| Enclosure                    | Steel 1U high, 19" rack mount             |
| Dimensions (HWD)             | 1.75" x 19" x 3.5"<br>44mm x 483mm x 89mm |
| Weight                       | 3.2 lbs. (1.4 kg)                         |



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